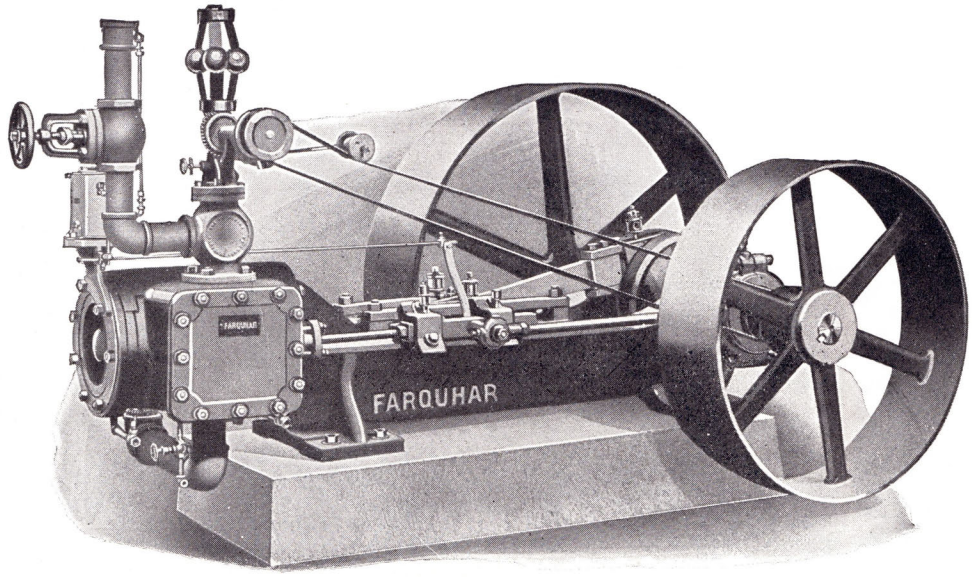
FARQUHAR CENTER CRANK ENGINE



Style "A"

The "Farquhar" (formerly called the "Ajax") is a high class, center crank engine with plain slide valve of the "D" pattern. It is self contained. Built in sizes from 10 to 60 H.P. May be used detached or mounted on Boiler. It delivers a regular, sustained stream of power with the least possible consumption of fuel.

The design and construction of the "Farquhar" Center Crank Engine commend it to the most exacting users of steam power. The parts are made over templates and fit accurately. The erecting is done over a complete set of jigs, thus assuring absolute alignment of cylinder, cross head and guides with crank shaft. Parts are standardized and interchangeable.

Regularly the "Farquhar" Engine is furnished left hand, that is, the flywheel on the left side facing the cylinder and the pulley on the right side. The steam chest, eccentric, governor and throttle are on the right side. Flywheel and pulley are interchangeable.

Every "Farquhar" Engine is put on a solid test block, belted to a PRONY BRAKE and subjected to a thorough test before it is permitted to leave the factory. It, therefore, runs smoothly, is free from knocks and with proper usage will have no hot crank or connecting rod boxes.

Can supply any combination of engine and boiler.

EQUIPMENT—FARQUHAR ENGINES

Regularly Furnished

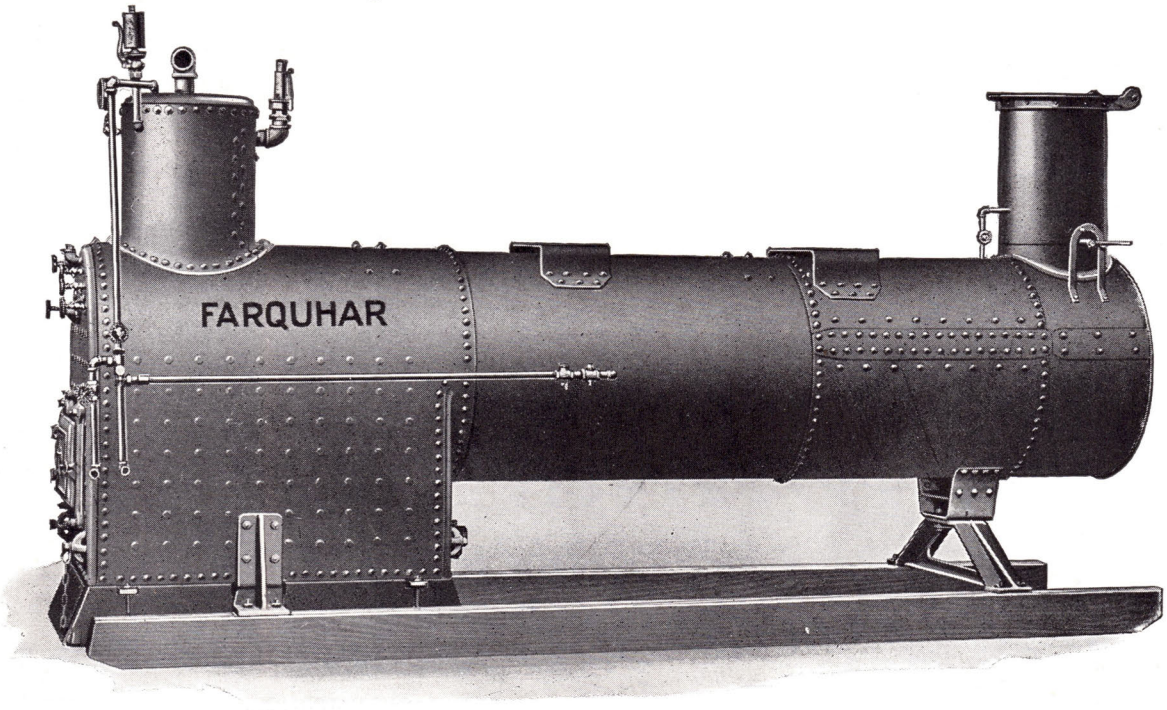
Balanced Crank, Flywheel, Pulley, Governor, Governor Belt, Foundation Bolts with Plates, Full set Oilers including Oil Pump, Oil Can, Combination Wrench and Throttle Valve.

Extras to Order—Steam and Exhaust Pipes

PRINCIPAL DIMENSIONS, STYLE "A," FARQUHAR ENGINES

Number	H. P. Nominal Rating	H. P. Brake Test	Bore of Cylinder, Inches	Length of Stroke, Inches	Size of Fly Wheel, Inches	Size of Pulley, Inches	Regular Speed R. P. M.	Diameter Crank Shaft, Inches	Size of Steam Pipe, Inches	Size of Exhaust Pipe, Inches	Approximate Floor Space, Feet	Approximate Weight, Pounds
A-10	10	27	7	10	40 x 10	24 x 8	260	3	1½	2	4½ x 7	1750
A-15	15	37	8	10	40 x 10	30 x 8	260	3	2	2½	4½ x 7	1825
A-20	20	51	9	11	44 x 12	36 x 10	250	3⅜	2	2½	5 x 7½	2400
A-25	25	56	9¼	12	48 x 12	36 x 10	240	3¾	2½	3	5½ x 8½	3400
A-30	30	66	10	12	48 x 12	36 x 10	240	3¾	2½	3	5½ x 8½	3500
A-40	40	82	11	13	54 x 14	48 x 12	220	4	3	3½	6 x 9½	4300
A-50	50	98	12	15	60 x 14	48 x 12	220	4¼	3	3½	6 x 10	5200
A-60	60	105	13	16	60 x 16	48 x 12	180	4½	3½	4	7 x 11	6900

FARQUHAR LOCOMOTIVE BOILERS



Style "F"

Farquhar Locomotive Boilers are of the open bottom, water front type. Built in strict conformity to the rigid requirements of the A. S. M. E. Code for 125 pounds safe working pressure, but we are prepared to build boilers with 150 pounds or even greater working pressure; also Massachusetts Standard.

Fire box in Farquhar Boilers is large and provides ample space for fuel and complete combustion of the fuel gases. The tubes are arranged to distribute the heat in such a manner that the greatest amount of steam is generated with the least consumption of fuel. Farquhar Rigs are economic and efficient; have long life and render dependable service. Mounted on wheels or sills. Equipped to burn coal, wood or oil.

REGULAR EQUIPMENT

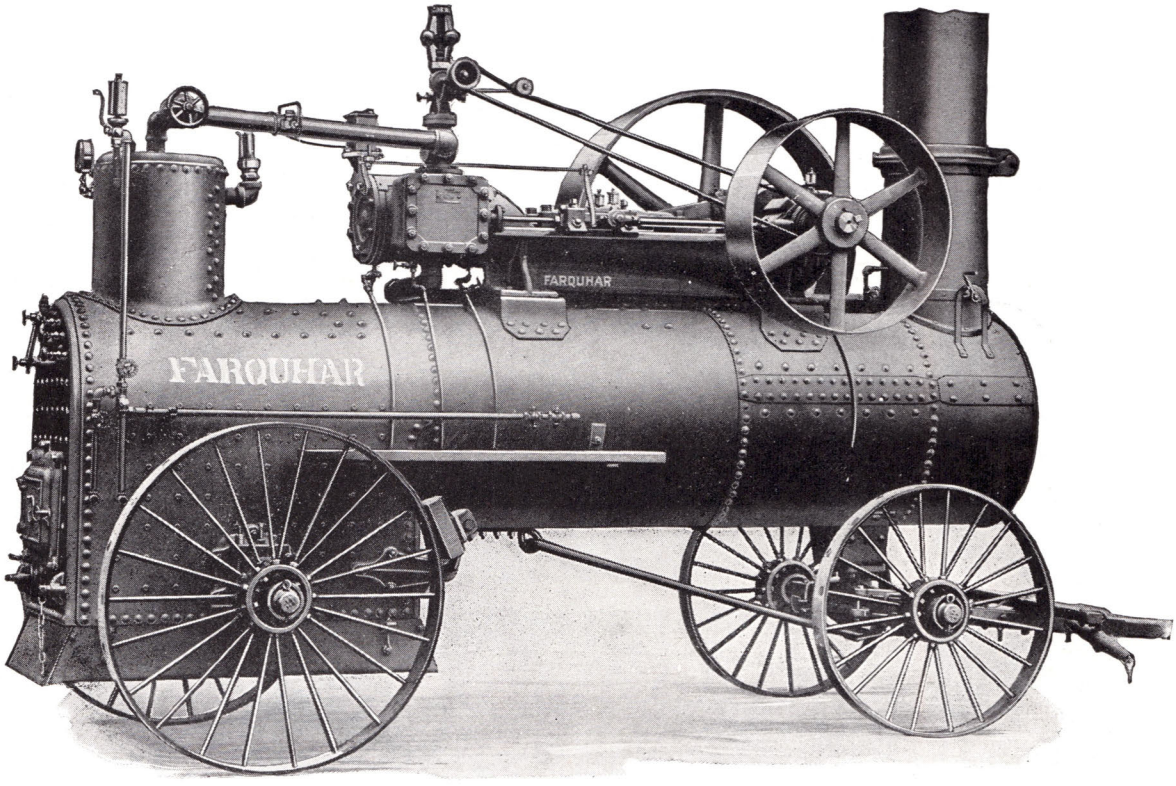
Grates
Stack Saddle
Stack Damper up to and including 40 H.P.
One Safety Valve up to and including 40 H.P.
Two Safety Valves 50 H.P. and larger
Gauge Cocks
Blow-off Valve
Whistle and Pipe
Water Gauges
Globe Valve with Blower
Steam Gauge with Syphon
Smoke Box Ring and Door
Fire Door
Funnel
Flue Cleaner with Handle
Poker
Ash Pan on Style "G"
Ash Pan on Style "F" up to and including 30 H.P.
Tongue and Breast Chains
Double and Single Trees
Hand Brake on Style "G" up to and including 60 H.P.

EXTRAS TO ORDER

Smoke Stack
Spark Arrester
Injector
Ash Pan on Style "F" larger than 30 H.P.
Jacketing
Oil Burning Attachment

Number on Wheels	Number on Sills	Rated Horse Power	Waist Diameter	Fire Box			Tubes			Dome		Stack		Ground Wheels		Approximate Weight on Wheels, Pounds	Approximate Weight on Sills, Pounds
				Height	Length	Width	Number	Diameter	Length	Diameter	Height	Diameter	Length—Ft.	Front	Rear		
G-10	F- 10	10	26	29	37	22	32	2	63	12	12	10	9	36x 6	44x 6	4900	3550
G-15	F- 15	15	30	30	41	25	36	2	80	16	18	12	10	36x 6	44x 6	5875	4300
G-20	F- 20	20	33	34	41	28	32	3	82	16	18	15	12	40x 7	51x 7	6885	5500
G-25	F- 25	25	36	36	49	31	32	3	90	20	22	18	16	40x 7	51x 7	8150	6750
G-30	F- 30	30	36	36	49	31	35	3	99	20	22	18	16	40x 7	51x 7	8500	7100
G-40	F- 40	40	39	40	52	34	40	3	124	20	22	19	20	40x 8	48x 8	10000	8550
G-50	F- 50	50	42	44	58	36	52	3	124	22	24	22	24	40x 8	48x 8	12700	11200
G-60	F- 60	60	48	50	58	42	64	3	120	24	26	26	30	42x 8	54x 9	13900	12220
G-80	F- 80	80	58	48	60	52	82	3	144	32	36	26	40	42x10	54x14	21500	18200
	F-100	100	62	50	60	56	90	3	168	32	40	30	50				20200
	F-125	125	64	52	60	58	102	3	192	36	40	30	50				27500

FARQUHAR LOCOMOTIVE RIGS



Style "B"

This Rig consists of the Farquhar Engine mounted on the Farquhar Locomotive Boiler. The Engine bed is flat and this flat base is mounted upon the flat steel saddles which are riveted to and made a permanent part of the boiler. A very superior mounting. Can supply any combination of engine and boiler.

This Rig has been designed for general sawmill, road building and contract work.

REGULAR EQUIPMENT—Furnished with Locomotive Rigs

Smoke Stack	Full Set Oilers	Water Gauge	Filling Plug
Guy Wires	Oil Pump	Steam Gauge	Oil Can
Flywheel	Gauge Cocks	Safety Valve	Combination Wrench
Pulley	Blow-off Valve	One Injector with 15 ft. Suction Pipe	Funnel
Governor	Whistle	6 ft. Suction Hose and Strainer	Flue Cleaner
Governor Belt	Grate Bars		Blower
Throttle Valve			Poker

Tongue, Breast Chains, Whiffle Trees, Hand Brake and Ash Pan on Style "B." Ash Pan on Style "C" up to and including 30 H.P.

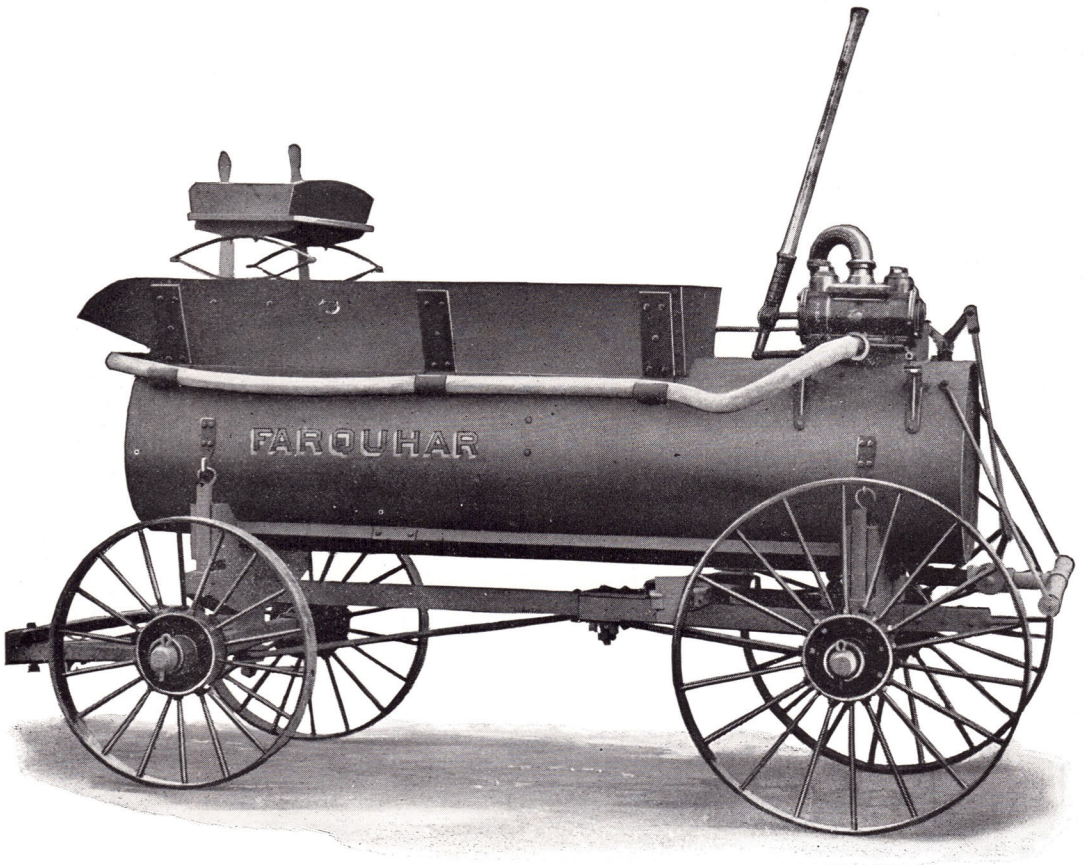
EXTRAS
- Spark Arrester
- Ash Pan on Style "C" over 30 H.P.
- Extra Injector
- Oil Burning Attachment

Style "B"—Farquhar Center Crank Engine on Locomotive Boiler on Wheels—Portable

PRINCIPAL DIMENSIONS, STYLES "B" AND "C"

No. on Wheels	No. on Sills	Nominal H. P.	Brake Test H. P.	ENGINE				BOILER			Stack: Diam., Inches; Length, Feet	Approximate Weight on Wheels, Pounds	Approximate Weight on Sills, Pounds
				Size of Cylinder, Inches	Fly Wheel, Inches	Pulley, Inches	Regular Speed, R.P.M.	Waist Diameter, Inches	Fire Box: Length, Width Height, Inches	Tubes: Number, Diameter and Length, Inches			
B-10	C-10	10	27	7 x 10	40 x 10	24 x 8	260	26	37x22x29	32–2x 63	10– 9	6650	5300
B-15	C-15	15	37	8 x 10	40 x 10	30 x 8	260	30	41x25x30	36–2x 80	12–10	7675	6300
B-20	C-20	20	51	9 x 11	44 x 12	36 x 10	250	33	41x28x34	32–3x 82	15–12	9285	7900
B-25	C-25	25	56	9¼ x 12	48 x 12	36 x 10	240	36	49x31x36	32–3x 90	18–16	11600	10200
B-30	C-30	30	66	10 x 12	48 x 12	36 x 10	240	36	49x31x36	35–3x 99	18–16	12000	10600
B-40	C-40	40	82	11 x 13	54 x 14	48 x 12	220	39	52x34x40	40–3x124	19–20	14300	12850
B-50	C-50	50	98	12 x 15	60 x 14	48 x 12	220	42	58x36x44	52–3x124	22–24	18000	16500
B-60	C-60	60	105	13 x 16	60 x 16	48 x 12	180	48	58x42x50	64–3x120	26–30	20800	19100
G-80	F-80			Boiler Only				58	60x52x48	82–3x144	26–40		
G-100	F-100			" "				62	60x56x50	90–3x168	30–50		
	F-125			" "				64	60x58x52	102–3x192	30–50		

FARQUHAR STEEL TANK WAGON



Tank with Sprinkler Attachment and Brake

This is a convenient and durable water wagon. Designed to meet the needs of Road Contractors where fuel and water must be carried for long hauls and for use of the engine and for sprinkling. Built in two sizes: 10 bbl. and 15 bbl. (32 gal. per barrel) sizes, with or without pump or sprinkler attachments.

The tank is exceptionally strong. No. 10 Gauge Steel is used throughout. The seams are carefully welded, thereby making a durable and non-leakable tank. It is provided with man hole and seat for tank pump.

The four-wheel truck is strongly and substantially built, having steel axles and wheels with 4-inch tread. Heavy loads may be hitched behind the tank with perfect safety. Regularly equipped with combination tongue. Designed to be hitched directly to the engine so that coal bunker is convenient to fireman. Hooks on either side provide for carrying of hose and tools. Driver's seat is regularly provided in the equipment for tank or sprinkler wagon.

The Farquhar Sprinkler attachment is an economical manner of wetting the road bed for the road roller.

The Farquhar Steel Tank Wagon is regularly supplied without hand brake, tank pump, suction and discharge hose or sprinkler attachment. These are extras and should be ordered with the tank as local conditions require.

Approximate weight 10 bbl. tank regularly equipped, 2275 pounds; 15 bbl. tank, 2445 pounds.